H. Sauter's Formosa-Ausbeute (Elateridae I.)

Von Yushiro Miwa, Formosa.

Kosempo: VII, 1908.


Taihorin: 22. VIII, 1911.


Tainan: V, 1912.


Cardiophorus anpingensis sp. nov.

Dark brownish or sometimes testaceous, shining, clothed with fine golden grey hairs. Head impressed between the eyes, very closely and rather coarsely punctured; frontal carina arched anteriorly and depressed at centre. Pronotum convex, rather longer than width, somewhat rounded at sides and the widest at middle; very densely and rather unevenly punctured; with a longitudinal median elevation which is mostly obliterated at the middle part; hind angles short and slightly incurved; scutellum relatively broad and deeply foveolated anteriorly. Elytra punctate-striate; interstices raised, minutely and unevenly punctulated. Antennae slender and much longer than head and prothorax combined; somewhat pale in colour. Legs also paler. — Length. 6-7 1/2 mm. Width: 1 1/2-1 9/4 mm.

Anping: V, 1912.

**Yushiro Miwa:**


Anping: VII, 1911 and 1912.

*Neodiploconus angulatus* Candèze, Monogr. Elat. III., p. 297, *(Diploconus)* (1860).

Kankau: VII, 1912.

*Neodiploconus castaneus* sp. nov.

Bright chestnut brown, shining, with golden yellow pubescence. Head nearly quadrulate but somewhat arched anteriorly; very closely and rather reticulately punctated. Pronotum convex, widest at the base, gradually narrowing anteriorly; punctation like that of the head on the lateral part, a little sparser and finer on the disc; hind angles acuminate and turned outwards, with double distinct carinae; scutellum oblong, nearly oblong, with somewhat feebly rugose surface. Elytra with acutely punctured striae; interstices minutely and rather sparsely punctulated; the apex of elytron slightly emarginate. Antennae, 2nd joint nearly as long as 3rd and much shorter than others, from 4th joint to 10th elongate triangular and together forming a distinct serration. Legs moderately slender; claws reddish. — Length: 10-12 1/4 mm. Width: 2 1/4-3 mm.


*Athous rufithorax* sp. nov.

Reddish with somewhat opalescent tint; elytra fuscous with aeneous lustre; fine tawny pubescent. Head nearly quadrulate; with
a triangular impression between the antennae, which is elevated longitudinally in the middle of bottom; densely and rather strongly punctured. Pronotum convex, nearly oblong and well margined at sides; with a feeble median longitudinal channel; punctation very dense but rather finer than that of head; hind angles relatively short and prolonged backwards, with an acute carina; scutellum convex, nearly circular, with a longitudinal median carina and coarse punctuation. Elytra conspicuously striated with strong punctuation; interstices rather elevated and feebly rugose. Antennae feebly serrated; 2nd joint shortest, 3rd more or less longer than others. Legs rather fuscous; 1st tarsal joint longer than others and nearly as long as the following three joints combined, 3rd much dilated, 4th very small. - Length: 10-12 1/2 mm. Width: 2 1/4-2 3/4 mm.

Taihorin: 7.VI, 1911.
Horisha: VII, 1926 (Y. Miwa).

Csikia taiwana sp. nov.

Bright chestnut brown, metallic shining, clothed with long fine fulvous piles. Head nearly quadulate, rather sparsely and unevenly punctured, with a feeble fovea on each frontal corner; frontal carina depressed in the middle and arched downwards. Pronotum convex, well margined at sides, with a long carinated ridge along the each lateral margin from the base to the anterior margin; very finely and rather unevenly punctulated; hind angles acuminated and turned outwards. Elytra punctate-striate; interstices rather feebly rugose, the external interstices somewhat dilated and rather furrowed. Antennae pitchy brown, slender and more twice longer than prothorax; 2nd joint shortest; from 3rd to 11th nearly similar in length. Legs somewhat paler; 3rd and 4th tarsal joints dilated below; claws reddish. Length: 8 1/2 — 10 mm. Width: 3 1/4-4 mm.

Taihorinsho: VIII, 1909.

Agriotes fuscus sp. nov.

Fuscous, little shining, with tawny pubescence. Head darker, convex; very closely and rather coarsely punctured. Pronotum convex, rather longer than width, with a feeble median longitudinal channel which is obsolete anteriorly; punctuation somewhat finer.
and much denser than that of the head; sides rather parallel; hind angles somewhat pale in colour, relatively short but acute, with a carinated ridge; basal furrow deep and very conspicuous; scutellum elongate pentagonal and slightly excavated. Elytra with punctured striae; interstices minutely and very unevenly punctulated. Antennae pale brownish yellow; 2nd and 3rd joints nearly similar in length and shorter than others. Legs concolorous with antenna; claws not toothed. — Length: $11\frac{1}{2}$ mm. Width: $2\frac{3}{4}$ mm.


Kankau: V, 1912.


Kankau: IV, 1912.

*Glyphonyx longulus* sp. nov.

Reddish brown, little shining, clothed with fine golden grey piles. Head convex, very densely and rather reticulately punctated, with a feeble median longitudinal channel. Pronotum convex, rather
longer than width, very closely punctured on the lateral part but somewhat finerly and sparserly on the disc; hind angles acute and prolonged backwards, with a long carinated ridge which is prolonged anteriorly nearly as long as two thirds of entire lateral margin; scutellum convex, nearly obtuse triangular, very finely and rather feebly punctulated. Elytra striated with punctures; interstices finely but rather unevenly granulated. Antennae bright reddish yellow and shining; 2nd joint nearly as long as 3rd but shorter and slenderer than others. Legs concolorous with antenna. —

Length: 8 — 9 mm. Width: 1 3/4 mm.-2 1/4 mm.


*Silesis Sauteri* sp. nov.

Dark chestnut brown, shining, with tawny pubescence. Head convex, longitudinally channelled in the middle, very densely and rather evenly punctured; frontal carina more or less excavated. Pronotum convex, nearly as broad as long, rather parallel at sides; with somewhat denser and finer punctation than that of the head; a feeble longitudinal channel running in the middle; hind angles acute, slightly and gradually curved outwards, with a long distinct carina which is prolonged forwads to the anterior angle; scutellum nearly ovate, sparsely and rather faintly punctulated. Elytra strongly punctate-striate; interstices flat, minutely punctulated. Antennae bright in colour and much shining; 2nd and 3rd joint shorter and slenderer than others, from 4th joint to 10th together forming a feeble serration. Legs fuscous; tarsi paler. This species resembles somewhat *S. assimilis* Candèze, and *S. okinawensis* Miwa, but differs from the latters as follows:

1. Hind angles of pronotum with a long carina which is prolonged forwads to the anterior angle . . . . (2)
   — Hind angles of pronotum without such carina. assimilis

2. Head with a longitudinal median channel; frontal carina excavated . . . . . . . . . . . . . . . . . . . . Sauteri
   — Head without channel; frontal carina transverse okinawensis

Length: 8 mm.-11 mm. Width: 2 1/4 mm.-2 3/4 mm.


Literature referred to.


Matsumura, S. — Beschreibung von am Zuckerrohr in Formosa schädlichen oder nützlichen Insecten, (1911). (Mém. Soc. Ent. Belg.).


Anmerkung des Deutschen Entomologischen Institutes:


Hemiops flava Cast. Paroe, nördl. Paiwan-Distr. IX.; Kankau IX.; Taihorin; Postanwan, Paiwan-Distr. IX.; Fuhosho VI.

Glyphonyx rubricollis Matsum. Taihorinsho VIII.; Banshoryo Distr. Sokutsu; Kosempo VIII.; Taihorin; Kankau V.

Agrypnus politus Cand. Taihorin; Kosempo 7. VII.; Kankau (Koshun) 7. VIII.; Hokuto 7. X.; Chip Chip II.

Lacon formosanus Bat. Kankau (Koshun) VI.; Pilam VII.; Tainan 7. VIII.; Banshoryo Distr. Sokutsu IX.; Kosempo VI.

L. setiger Bat. Sokutsu 7. VI.; Banshoryo Distr. Sokutsu 7. VIII.; Taihorin 22. VIII.

L. bipapulatus Cand. Fuhosho VIII.; Banshoryo Distr. Sokutsu IX.; Hoozan IX.

L. taciturnus Cand. Sokutsu 7. VI.

L. kaiwanus? Miw. Kankau (Koshun) VI.

L. modestus Cand. Anping V.
H. Sauter's Formosa-Ausbeute (Elateridae I).

*L. musculus* Cand. Anping VI.-VII.; Kosempo 7. IX.; Fuhosho VIII.

*Aeoloderma sinensis* Cand. Anping 22. VII.

*Alaus larvatus* Cand. Banshoryo Distr. Sokutsu 22. VI.-IX.; Fuhosho VIII.; Kosempo 7. X.-7. XII.

*Tetrigus lewisi* Cand. Sokutsu Banshoryo Distr. 7. VII.

*Campsosternus auratus* Druy Kankau (Koshun) V.; Kosempo V.-7. VII.; Taihorin 22. VI.; Sokutsu Banshoryo Distr. 22. VI.

*C. gemma* Cand. Kosempo 7. VII.; Sokutsu VI.-7. VII.; Le. Hi. Ku. VII.

*Pectocera fortunei* Cand. Kosempo 22. VII.

*Sephilus formosanus* Schw. Chip Chip XI.

*Heteroderes triangularis* Eschtz. Taihorin VII.; Kankau (Koshun) VII.; Anping VII.

*H. intermedius* Cand. Anping 22. VII.

*H. albicans?* Cand. Pilam I.

*Megapenthes ligatus* Cand. Kosempo 22. V.-VI.; Alikang V.

*Melanoxocanthus melanocephalus* F. Anping 22. VI.-12. VIII.

*M. nigripennis* Fleut. Kosempo 22. V.-7. VII.

*M. luzonicus* Fleut. Taihorin 7. VII.

*Anchastus Castelnaui* Cand, Taihorin 7. VII.

*Cardiophorus nothus* Cand. Taihorin 7. VI.; Kankau (Koshun) V.

*C. carduelis* Cand. Kosempo 7. VII.

*Melanotus venalis* Cand. Kosempo IV.-22. VII.

*Ludius niponensis* Lewis Sokutsu Banshoryo Distr. 7. VII.

*L. Sieboldi* Cand. Banshoryo Distr. Sokutsu IX.; Kosempo 7. VII.

*Neotrichophorus plebejus* Cand. Anping VI.; Kosempo 7. IX.

*Agonischius obscuripes* Gyll. Kosempo 7. V.-22. VI.

*A. tonkinensis* Fleut. Kosempo 23. V.-VI.; Kankau (Koshun) IV.; Banshoryo Distr. Sokutsu 7. VII.

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